

FORM PTO-1449

U.S. Department of
Commerce
Patent and Trademark OfficeATTY. DOCKET:
2003080-0089
(SK-744-US/CON5)IN RE
APPLICATION
NO.:

10/058,695

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

EXPRESS MAIL NO.: EL603009420US

APPLICANT: DANISHEFSKY, ET AL.

FILING DATE:
JANUARY 28, 2002

GROUP: 1626

U.S. PATENT DOCUMENTS

*asterisk indicates already submitted with parent application no.: 09/874,514, filed June 5, 2001, Patent No: 6,242,469 (Danishefsky, et al.), or 6,204,388 (Danishefsky, et al.)

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
YO	*5,969,145	Schinzer, <i>et al.</i>	October 19, 1999	548	110
	*5,021,430	Ksander, <i>et al.</i>	June 4, 1991	514	332
	*5,917,084	Jiang, <i>et al.</i>	June 29, 1999	560	174
	*6,043,372	Schinzer, <i>et al.</i>	March 28, 2000	548	110
	*6,156,905	Schinzer, <i>et al.</i>	December 5, 2000	548	204
	*6,204,388	Danishefsky, <i>et al.</i>	March 20, 2001	546	340
	*6,242,469	Danishefsky, <i>et al.</i>	June 5, 2001	514	365
	*6,262,094	Hoefle, <i>et al.</i>	July 17, 2001	514	365
	*6,284,781	Danishefsky, <i>et al.</i>	September 4, 2001	514	365
	*6,288,237	Hoefle, <i>et al.</i>	September 11, 2001	548	203
	*6,291,684	Borzilleri, <i>et al.</i>	September 18, 2001	548	961
	*6,300,355	Danishefsky, <i>et al.</i>	October 9, 2001	514	374

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Filing Date:	Group:	Art Unit:
	*60/032,864	Nicolaou, <i>et al.</i>	December 13, 1996		
	*08/856,533	Nicolaou, <i>et al.</i>	May 14, 1997		
	*08/923,869	Nicolaou, <i>et al.</i>	September 4, 1997		
	*20010031880	Borzilleri, <i>et al.</i>	October 18, 2001	548	961
	*09/686,158	Danishefsky, <i>et al.</i>	October 11, 2000		
	*10/004,571	Danishefsky, <i>et al.</i>	December 4, 2001		

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
YO	*19542986.9	DE	17 November 1995		
	*19639456.2	DE	25 September 1996		
	*WO99/02514	WO	21 January 1999		
	*WO98/25929	WO	18 June 1998		
	*WO98/08849	WO	05 March 1998		

FORM PTO-1449 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET: 2003080-0089 (SK-744-US/CON5)		IN RE APPLICATION NO. 10/058,695	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) EXPRESS MAIL NO.: EL603009420US				APPLICANT: DANISHEFSKY, ET AL.			
				FILING DATE: JANUARY 28, 2002		GROUP: 1626	
YO	*WO97/19086	WO	29 May 1997				
	*19636343	DE	23 October 1997				
	*19639456	DE	26 March 1998				
	*19544986	DE	22 May 1997				
	*19645362	DE	30 April 1998				
	*19645361	DE	30 April 1998				
OTHER DOCUMENTS *asterisk indicates submitted with parent application no.: 09/874,514, filed June 5, 2001; application no. 08/986,025, (now Patent No: 6,242,469) Danishefsky, et al., or 6,204,388 (Danishefsky, et al.)							
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)						
YO	*Balog et al., "Stereoselective Syntheses and Evaluation of Compounds in the 8-Desmethylepothilone A Series: Some Surprising Observations..." <i>Tetrahedron Letters</i> 38:26 4529-4532 (1997).✓						
	*Bijoy, P. et al., "Synthetic Studies Directed Towards Epothilone A:...", <i>Tetrahedron Letters</i> 39:209-212 (1998).✓						
	*Bollag, Daniel M., "Epothilones, a New Class of MT-stabilizing Agents...", <i>Cancer Research</i> 55:2325-2333 (1995).✓						
	*Chakraborty, T.K. et al., "Radical-induced Opening of Trisubstituted Epothilones", <i>Tetrahedron Letters</i> 39:101-104 (1998).✓						
	*Claus, E. et al., "Synthesis of the C1-C9 Segment of Epothilones", <i>Tetrahedron Letters</i> 38:8:1359-1362 (1997).✓						
	*Gabriel, T., "The Chromium-Reformatsky Reaction:...", <i>Tetrahedron Letters</i> 38:8 1363-1366 (1997).✓						
	*Gerth, K. et al., "Epothilone A and B: Antifungal and Cytotoxic Compounds...", <i>Liebigs Ann.Chem.</i> 74 & 75, 49-53 (1996).✓						
	*Giannakakou, P. et al., "Paclitaxel-resistant Human Ovarian Cancer Cells Have Mutant β -Tubulins...", <i>J. Bio. Chem.</i> 272:27 17118-17125 (1997).✓						
	*Höfle, G. et al. "Epothilone A and B-Novel 16-Membered Macrolides with Cytotoxic...", <i>Chem Int. Ed. Engl.</i> 35:13 14, 1567-1569 (1996).✓						
	*Kowalski, R.J. et al., "Activities of the Microtubule-stabilizing Agents Epothilones A and B...", <i>J. of Biol.Chem.</i> 272:4 2534-2541 (1997).✓						
	*Liu, Z.Y. et al., "Chiral Synthesis of the C ₃₋₁₃ Segment of Epothilone A" <i>Synlett Letters</i> 1383-84 (1997).✓						
	*March, Advanced Organic Chemistry, 2nd Ed., McGraw-Hill (1977), page 940, section 7-21.						
	*Meng et al. "Studies toward a Synthesis of Epothilone A: Use of Hydropyran Templates for the Management of Acyclic Stereochemical Relationships" <i>J. Org. Chem.</i> 61:23 7998-8001 (1996).✓						

FORM PTO-1449 (REV. 8-83)	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2003080-0089 (SK-744-US/CON5)	IN RE APPLICATION NO.: <i>10/058,695</i>
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) EXPRESS MAIL NO.: EL603009420US		APPLICANT: DANISHEFSKY, ET AL. FILING DATE: JANUARY 28, 2002 GROUP: 1626	
<i>70</i>	*Meng et al. "Total Synthesis of Epothilones A and B" <i>J. Am. Chem. Soc.</i> 119:42 10073-10092 (1997).✓ *Moasser et al., "Farnesyl transferase inhibitors cause enhanced mitotic sensitivity to taxol...." <i>Proc. Natl. Acad. Sci. USA</i> , 95:1369-1374 (1998).✓ *Muhlradt et al., "Epothilone B Stabilizes Microtubuli of Macrophages Like Taxol...", <i>Cancer Res.</i> 57, 3344-46 (1997).✓ *Mulzer, J. et al., "Synthesis of the C(1)-C(9) Segment of the Cytotoxic Macrolides Epothilone A and B", <i>Tetrahedron Letters</i> 37:51, 9179-9182 (1996).✓ *Nicolaou, K.C. et al., "Total Synthesis of 26-hydroxyepothilone B and related analogues", <i>Chem. Commun.</i> 2343-2344 (1997).✓ *Nicolaou, K.C. et al., "Total Synthesis of Epothilone A: The Macrolactonization Approach", <i>Angew. Chem. Int. Ed. Engl.</i> , 36: 525-527 (1997).✓ *Nicolaou, K.C. et al. "Total Synthesis of Epothilone A and B via a Macrolactonization-Based Strategy", <i>J. Am. Chem. Soc.</i> 119, 7974-7991 (1997).✓ *Nicolaou, K.C. et al., "Total Synthesis of Oxazole-and Cyclopropane-Containing Epothilone A Analogues...", <i>Chem. Eur. J.</i> 3:12 1957-1970 (1997).✓ *Nicolaou, K.C. et al., "Total Synthesis of Oxazole-and Cyclopropane-Containing Epothilone B Analogues...", <i>Chem. Eur. J.</i> 3:12 1971-1986 (1997).✓ *Nicolaou, K.C. et al., "The Olefin Metathesis Approach to Epothilone A and Its Analogues", <i>J. Am. Chem. Soc.</i> 119, 7960-7973 (1997).✓ *Nicolaou, K.C. et al., "Designed Epothilones: Combinatorial Synthesis, Tubulin Assembly..." <i>Angew. Chem. Int. Ed. Engl.</i> 36:19 2097-2103 (1997).✓ *Nicolaou, K.C. et al., "Synthesis of Epothilones A and B in solid and solution phase", <i>Nature</i> 387:15 268-272, 238-239 (1997).✓ *Nicolaou, K.C. et al., "Probing the Ring Size of Epothilone: Total Synthesis of [14]-, [15]-, [17]-,..." <i>Angew. Chem. Int. Ed.</i> 37:1/2, 81-87 (1998).✓ *Nicolaou, K.C. et al., "Variation der Ringgröße von Epothilonen-Totalsynthesen von [14]-, [15]-, [17]-,..." <i>Angew. Chem.</i> 110:1/2 85-92 (1998).✓ *Nicolaou, K.C. et al., "An Approach to Epothilones Based on Olefin Metathesis" <i>Angew. Chem. Int. Ed. Engl.</i> 35:20 2399-2401 (1996).✓ *Schinzer, D. et al., "Studies Toward the Total Synthesis of Epothilones:...", <i>Chem. Eur. J.</i> 2:11 1477-1488 (1996).✓ *Schinzer, D. et al., "Total Synthesis of (-)-Epothilone A", <i>Angew. Chem. Int. Ed. Engl.</i> 36:5 523-524 (1997).✓ *Taylor, R.E., et al., "Towards the Synthesis of Epothilone A: Enantioselective Preparation..." <i>Tetrahedron Letters</i> 38:12 2061 2064 (1997).✓ *Wessjohann, L., "Epothilones: Promising Natural products with Taxol-Like Activity", <i>Angew. Chem. Int. Ed. Engl.</i> 36:7 715-718 (1997).✓ *Victory et al., "Relative Stereochemistry and Solution Conformation of the Novel Paclitaxel-Like Antimitotic Agent Epothilone A" <i>Bioorganic & Medicinal Chemistry Letters</i> 6:7 893-898 (1996).✓		